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BOTANY.

Silviculture.¹—Silviculturists and others interested in forest management will welcome the second part of Professor Mouillefert's comprehensive treatise which is now out. The first part having considered in much detail from the forester's point of view the most important tree species, this second part deals especially with the management and exploitation of trees in assemblages or forests. After defining precisely the terms used, the author considers most comprehensively the principal methods of developing and harvesting the two forms of wood, high forest and coppice, and the application of these methods to the principal species of trees; gives advice as to what to seek in any given case, and describes the nature and amount of the product to be obtained, giving volume curves, directions for developing a forest working plan, calculations of annual revenue, and so on. Special chapters deal with the cultivation of osiers for the draining of soils and with the culture of truffles. The chief modes of cropping and marketing forest products are also taken up.

While special parts, such as rules for forest management and the tables of annual returns, are based upon conditions different from our own (it being possible by reason of the centuries of forestry practice in France to lay down rules of practice and estimate yields much more definitely than with us) nevertheless the general aspects of the subject, the principles of the science and art of silviculture are set forth so clearly and simply that the book is bound to be of general interest to foresters and students of forestry in this country. It will be particularly helpful in making clear to many certain sides of the subject, such as the mathematics of forest measurements, which, as they are often set forth in works on forestry, are not likely to be easily understood.

C. S. S.

Notes.—Loeb's St. Louis address on the recent development of biology is printed in *Science* of December 9th.

An important addition to the rather abundant recent literature of apogamy is made by Strasburger, in a study of *Alchemilla* published in the opening number of Vol. 41 of the *Jahrbücher für wissenschaftliche Botanik*.

¹ Mouillefert, P. *Traité de Sylviculture*—Part 2—*Exploitation et Aménagement des Bois*. Paris, Alcan. 1904. 12mo, 476 pp., 10 pls. 97 figs.